

In re Appln. of RATLEDGE et al.
Application No. 10/030,700

SPECIFICATION AMENDMENTS

Replace the paragraph beginning at page 1, line 11 with:

~~According to a first aspect of the invention there is provided, a method of culturing a microorganism for the synthesis of producing an oil including docosahexaenoic acid (DHA) by the microorganism, comprising the microorganism with an organic species comprising an acidic group or an ionized form of an acidic group, the microorganism using the species as a~~ with a strain of *Cryptocodinium cohnii* comprises culturing a strain of *Cryptocodinium cohnii* in a nutrient medium containing acetic acid and/or acetate ions, wherein the culturing process parameters are controlled in a manner that results in the absence of a stationary phase during the culturing process. The acetic acid and/or acetate ions comprise the primary carbon source and synthesizing docosahexaenoic acid consumed by the *Cryptocodinium cohnii* to synthesize the DHA. The method also includes recovering oil including DHA from the strain of *Cryptocodinium cohnii*.

Replace the paragraph beginning at page 2, line 5 with:

~~According to a second aspect of the invention there is provided a~~ method of culturing a microorganism for the synthesis of docosahexaenoic acid by the microorganism, comprising may comprise culturing the microorganism with an organic species comprising an acidic group or an ionized form of an acidic group, the microorganism synthesizing docosahexaenoic acid containing carbon from the species.

Replace the paragraph beginning at page 2 line 10 with:

~~According to the third aspect of the invention there is provided a~~ method of culturing a microorganism for the synthesis of a polyunsaturated fatty acid by the microorganism, comprising may comprise culturing *C. cohnii* with an organic species comprising an acidic group or an ionized form of an acidic group, the *C. Cohnii* using the species as a carbon source and synthesizing a polyunsaturated fatty acid.